

ABSTRACT OF THE DISCLOSURE

A control device for a turbocharger with an electric motor includes a turbocharger which is provided along with an internal combustion engine and supercharges air taken in the internal combustion engine using a compressor; an
5 electric motor which can increase a supercharging pressure by running the compressor of the turbocharger; and a controller. The controller calculates a base amount of electric power to be supplied to the electric motor based on a target supercharging pressure and an actual supercharging pressure, decides an amount of electric power to be supplied to the electric motor, controls the electric motor based on the decided
10 amount of electric power to be supplied, and sets the amount of electric power to be supplied to a maximum amount of electric power regardless of the calculated base amount of electric power when high supercharging responsiveness by the turbocharger is required.